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(FILE 'HOME' ENTERED AT 13:39:23 ON 24 NOV 2006)

FILE 'CAPLUS' ENTERED AT 13:39:58 ON 24 NOV 2006

FILE 'REGISTRY' ENTERED AT 13:40:03 ON 24 NOV 2006

E GUANINE
L1 5898 SEA ABB=ON PLU=ON GUANINE/BI
D L1 1

FILE 'CAPLUS' ENTERED AT 13:40:34 ON 24 NOV 2006
L2 69705 SEA ABB=ON PLU=ON GUANINE
L3 1415 SEA ABB=ON PLU=ON GUANINE (P) (PHASE OR SURFACE TENSION)
L4 0 SEA ABB=ON PLU=ON GUANINE (P) (PHASE OR SURFACE TENSION)
(P) MULSION
L5 2 SEA ABB=ON PLU=ON GUANINE (P) (PHASE OR SURFACE TENSION)
(P) EMULSION
D L5 IBIB KWIC 1-
L6 0 SEA ABB=ON PLU=ON GUANINE (P) (PHASE OR SURFACE TENSION)
(P) (OIL-IN-WATER OR WATER-IN-OIL)
L7 0 SEA ABB=ON PLU=ON GUANINE (P) (PHASE OR SURFACE TENSION)
AND EMULSION (P) (OIL-IN-WATER OR WATER-IN-OIL)
L8 5 SEA ABB=ON PLU=ON GUANINE (P) (PHASE OR SURFACE TENSION)
AND PHASE (P) WATER (P) OIL
D L8 IBIB KWIC 1-

FILE HOME

FILE CAPLUS

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FILE COVERS 1907 - 24 Nov 2006 VOL 145 ISS 23
FILE LAST UPDATED: 23 Nov 2006 (20061123/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

E-18071 GRANADA, SPAIN); GALLARDO V; PARERA A; RUIZ M
A

SOURCE: J SOC COSMET CHEM, 1996, 47 (6), 377-386, 14 REFS

DOCUMENT TYPE: Journal

LANGUAGE: English

TI STABILITY AND OPTIMIZATION OF SILICONE-BASED SUNSCREEN
FORMULATIONS

AB Advances in silicone chemistry have led in recent years to the development of a wide variety of compounds derived from the basic structure. . . chemical inertia, heat resistance, and lack of systemic toxicity. Because these compounds do not cause sensitization or irritation of the skin or eyes, they are excipients of choice in skin-care products and drugs. The advantages of silicone emulsions are that they can be prepared at room temperature, have adequate extensibility, and do not leave a greasy, sticky, or unctuous film on the skin. Physical stability assays (centrifugation and aging at 25, 40 and 60 degrees C) yielded similar results. Rheological assays, tests at different pH values, and droplet size studies were also done. Stability of the preparation was adequate: droplets remained small and homogeneous, and did not increase in size because of coalescence during the assay. pH showed minimal variations, . . . and remained within the range of 6.5-7. Different centrifugation assays were used, none of which led to breakdown of the emulsion. Because of their hydrophobic nature, silicones impart substantiveness to the preparation. This was confirmed experimentally in washing-off tests, used because the final product was intended for. . .

SH SKIN; PRODUCT EVALUATION; RAW MATERIALS; COSMETICS

CT STABILITY; OPTIMIZATION; SUNSCREENS; FORMULATIONS; SILICONES;
CHEMISTRY; DEVELOPMENT; POLYMERS; CHEMICALS; HEAT; RESISTANCE; TOXICITY;
SENSITIZATION; IRRITATION; SKIN; EYES; EXCIPIENTS; SKIN
CARE; SKIN CARE PRODUCTS; DRUGS; EMULSIONS; CANS;
TEMPERATURE; EXTENSIBILITY; LEAVES; FILMS; CENTRIFUGATION; AGING; PH;
VALUE; SIZE; COALESCENCE; NATURE; SUNLIGHT; TESTING; CONCENTRATION;
FILTERS; PRODUCT EVALUATION; RAW MATERIALS; COSMETICS;
METHODOLOGY; CYCLOMETHICONES; SILICONES DERIVATIVES;
UVA; UVB; SPECTROPHOTOMETRY; PHYSICOCHEMICAL PROPERTIES

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(FILE 'HOME' ENTERED AT 09:13:31 ON 24 NOV 2006)

FILE 'CAPLUS, KOSMET' ENTERED AT 09:13:46 ON 24 NOV 2006

L1 6 SEA ABB=ON PLU=ON MEARLMAID
L2 1 SEA ABB=ON PLU=ON MEARLMAID OL
D L1 IBIB KWIC 1-
L3 3 SEA ABB=ON PLU=ON GUANINE (P) EMULSION (P) (ENHANC? OR
STABILIZ?)
L4 3 SEA ABB=ON PLU=ON GUANINE (P) EMULSION (P) (ENHANC? OR
STABILIZ?)
L5 29 SEA ABB=ON PLU=ON GUANINE (P) EMULSION
L6 0 SEA ABB=ON PLU=ON L5 AND (SILOXANE OR CYCLOMETHICONE OR
PHENYLTRIMETHICONE OR TRISILOXANE OR SILICONE) (5A) (PARTICLE
OR DROPLET)
L7 0 SEA ABB=ON PLU=ON L5 AND EMUSLION
L8 29 SEA ABB=ON PLU=ON L5 AND EMULSION
L9 4 SEA ABB=ON PLU=ON L5 AND EMULSION (P) OIL-IN-WATER

lc

D L9 IBIB KWIC 1-

L10 168 SEA ABB=ON PLU=ON EMULSION (P) DROPLET (P) (SILICONE OR CYCLOMETHICONE OR DIMETHICONE OR TRISLOXANE OR PHENYLTRIMETHICONE)

L11 77 SEA ABB=ON PLU=ON L10 AND (PARTICLE OR PARTICULATE OR DROPLET) (5A) (MICRON OR MM OR SIZE)

L12 0 SEA ABB=ON PLU=ON L11 AND (PEARLESCENT OT PEARLESCENCE)

L13 0 SEA ABB=ON PLU=ON L11 AND GUANINE

L14 0 SEA ABB=ON PLU=ON L10 AND L5

L15 4 SEA ABB=ON PLU=ON L11 AND VITAMIN

L16 1 SEA ABB=ON PLU=ON L11 AND ASCORBIC

L17 0 SEA ABB=ON PLU=ON L11 AND TOCOPHEROL

L18 1 SEA ABB=ON PLU=ON LL5 AND PIGMENT

L19 0 SEA ABB=ON PLU=ON LL5 AND COLOR

D L15 IBIB KWIC 1-

L20 25 SEA ABB=ON PLU=ON L11 AND (SKIN OR TOPICAL OR COSMETIC)

D L20 IBIB KWIC 1-

FILE HOME

FILE CAPLUS

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FILE KOSMET

FILE LAST UPDATED: 6 NOV 2006 <20061106/UP>
FILE COVERS 1968 TO DATE.

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